#### FERNALD CLEANUP PROGRESS BRIEFING SEPTEMBER 1999

6:30 p.m. Opening Remarks	Gary Stegner
6:35 p.m. Project Updates	
Waste Pits Remedial Action Project	Dave Lojek
On-Site Disposal Facility Project	Jay Jalovec
Decontamination & Dismantlement	John Trygier
Silos Project	Nina Akunduz
Aquifer Restoration/Wastewater Project	Rob Janke
Soil Characterization & Excavation Proje	ct Dennis Carr
Waste Management	Carlos Tellez
Question and Ans	swer Session

8:30 p.m. Adjourn

# PROJECT NEWS WASTE PITS REMEDIAL ACTION PROJECT

- Rail shipments to Envirocare
- Waste pit excavation
- Full-scale treatment operations

## PROJECT NEWS ON-SITE DISPOSAL FACILITY

- Cell 1: 180,000 in-place cubic yards; 60 percent complete
- Cell 2: 95,000 in-place cubic yards; 25 percent complete
- Cell 3: Liner System installation
- Permanent Leachate Transmission System design

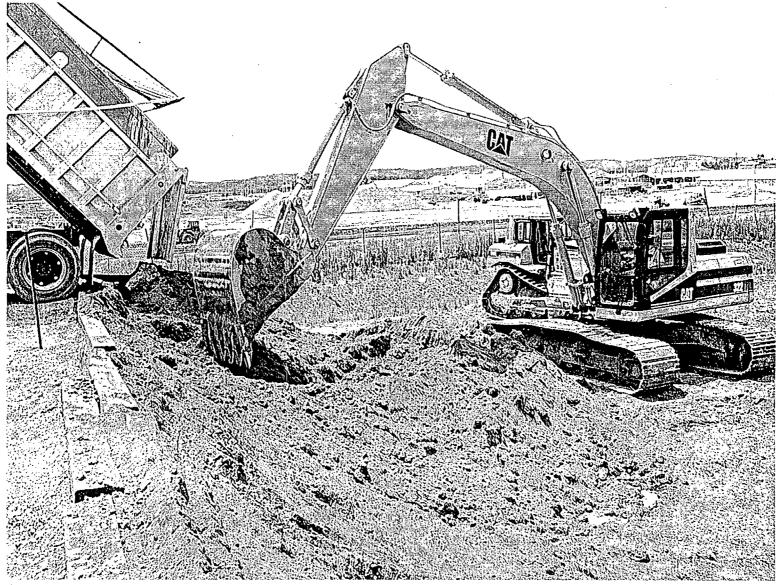
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#### DEBRIS PLACEMENT



Photo taken June 1999

#### SOIL PLACEMENT



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#### CELL 3 CLAY LINER

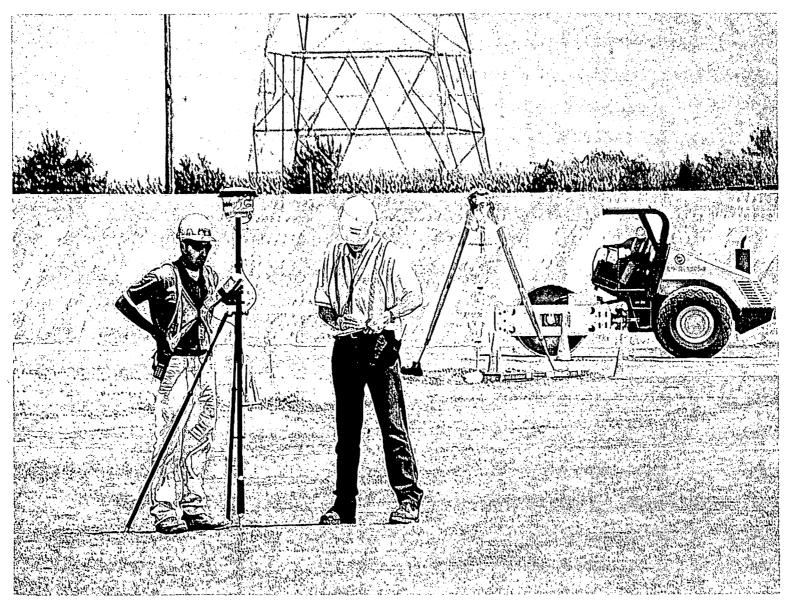


Photo taken August 1999

#### GEOSYNTHETIC CLAY LINER

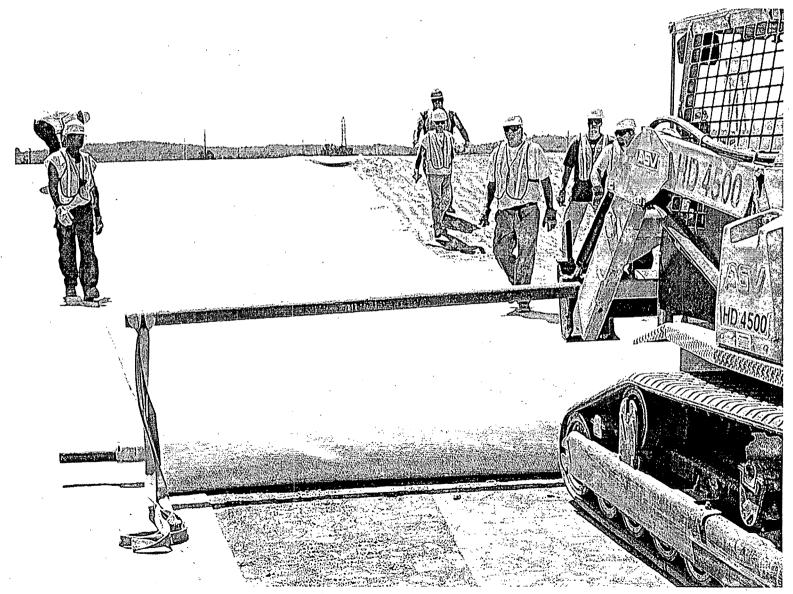


Photo taken August 1999

## LEAK DETECTION SYSTEM DRAINAGE LAYER



Photo taken August 1999

# PROJECT NEWS DECONTAMINATION & DISMANTLEMENT

- Plant 6 decontamination and dismantlement contract
- Demolition work started on Plant 5
- Status of Maintenance Tank Farm Complex

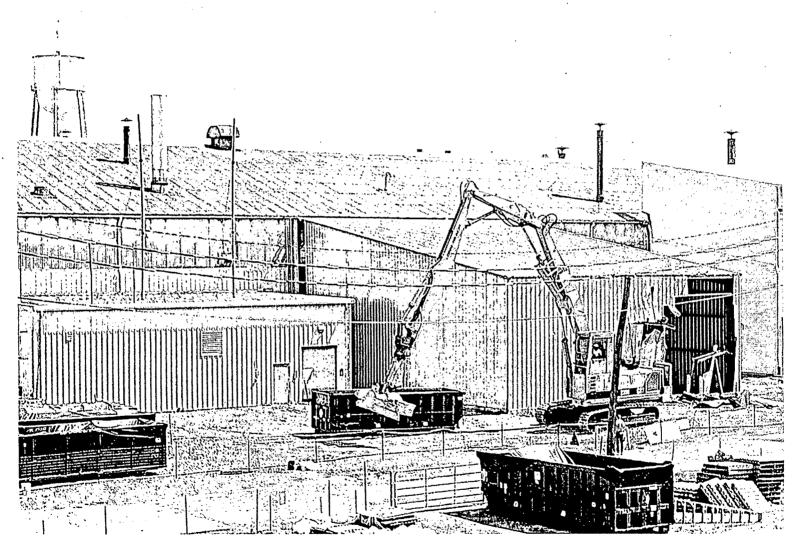


Photo taken August 1999

#### MAINTENANCE BUILDING

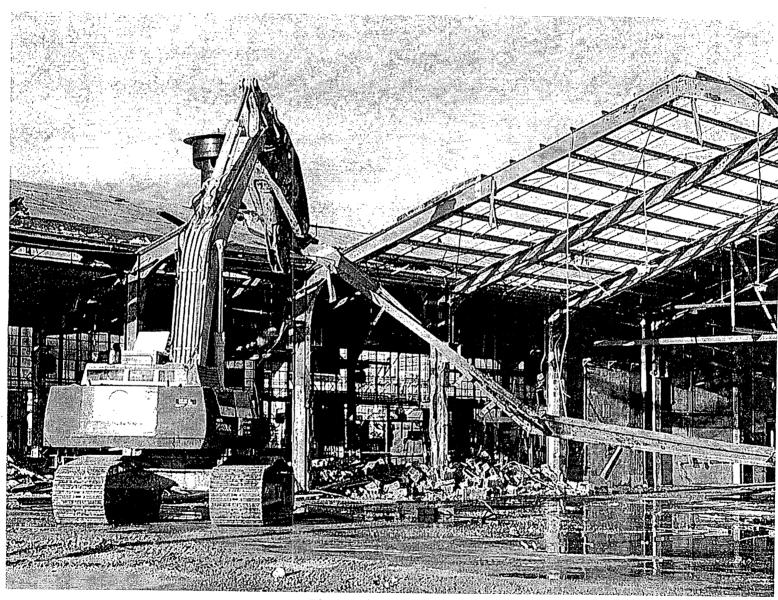


Photo taken August 1999

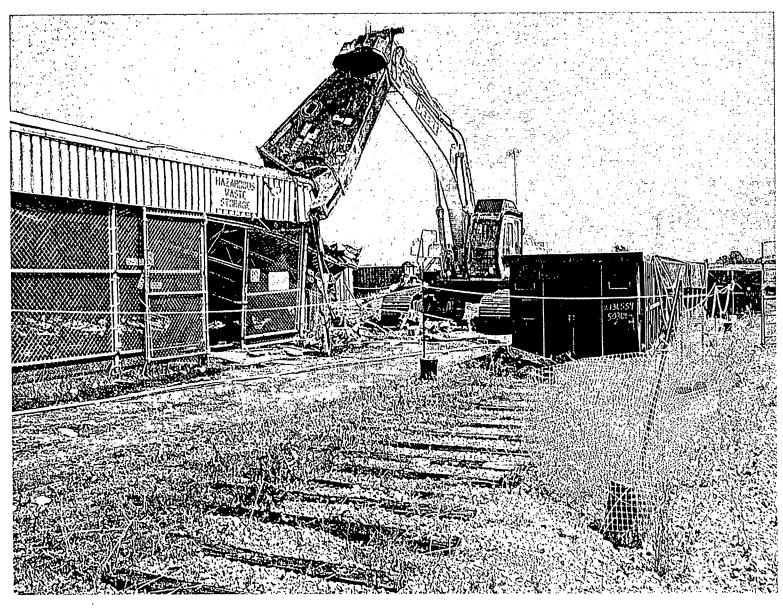
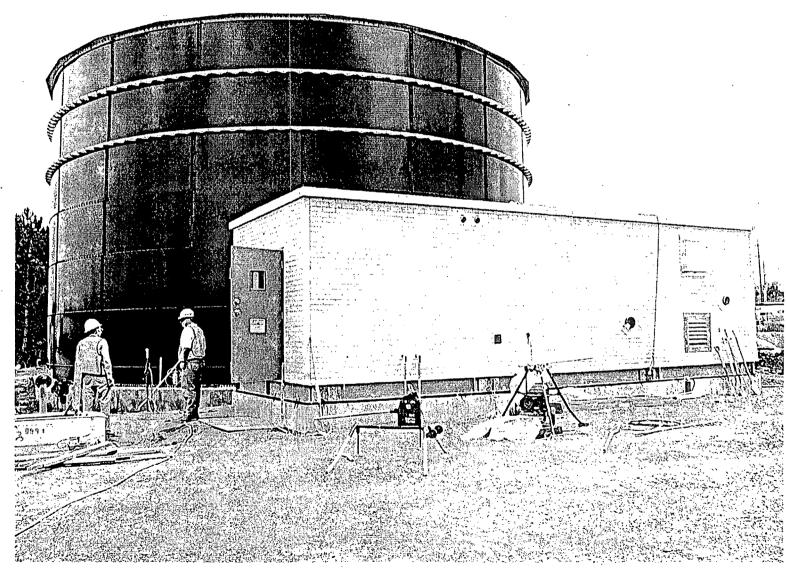


Photo taken August 1999

#### NEW WATER TANK



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Silos 1 & 2 Feasibility Study

- Draft Feasibility Study preparation
- Dialogue with stakeholders and regulators
- Independent reviews by Critical Analysis Team
   (CAT) and DOE review team

Silos 1& 2 Accelerated Waste Retrieval

- Finalized schedule
- Continuing design and safety documentation development
- Authorization to mobilize on target for second quarter, FY 2000

Silo 3

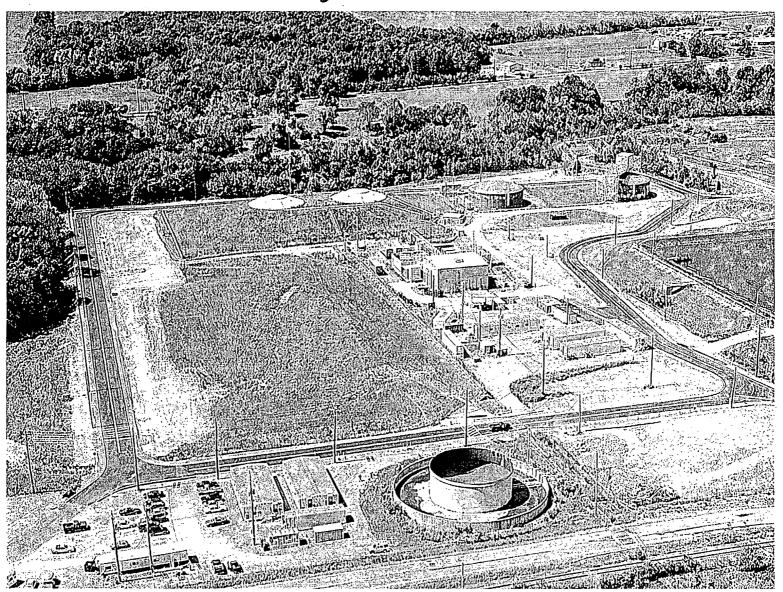
- Design and safety documentation development
- Authorization to mobilize on target for fourth quarter, FY 2000

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Infrastructure Project

- Completed project
- Demobilization expected by mid-September

#### SILOS INFRASTRUCTURE PROJECT ROAD



# PROJECT NEWS AQUIFER RESTORATION/ WASTEWATER PROJECT

- Construction Projects:
  - Sludge Removal System completed August 27
  - AWWT laboratory expansion completed September 7
  - Installation of two new extraction wells in South Field

#### SLUDGE REMOVAL DREDGE

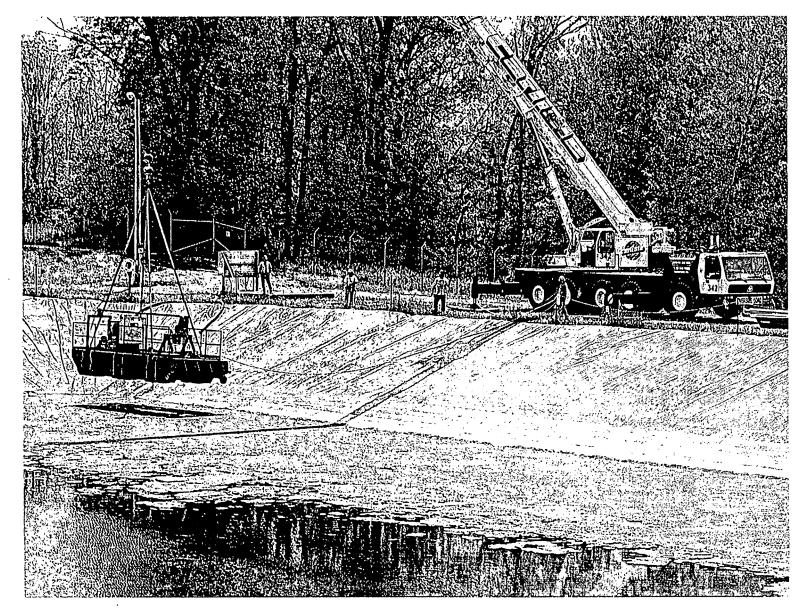
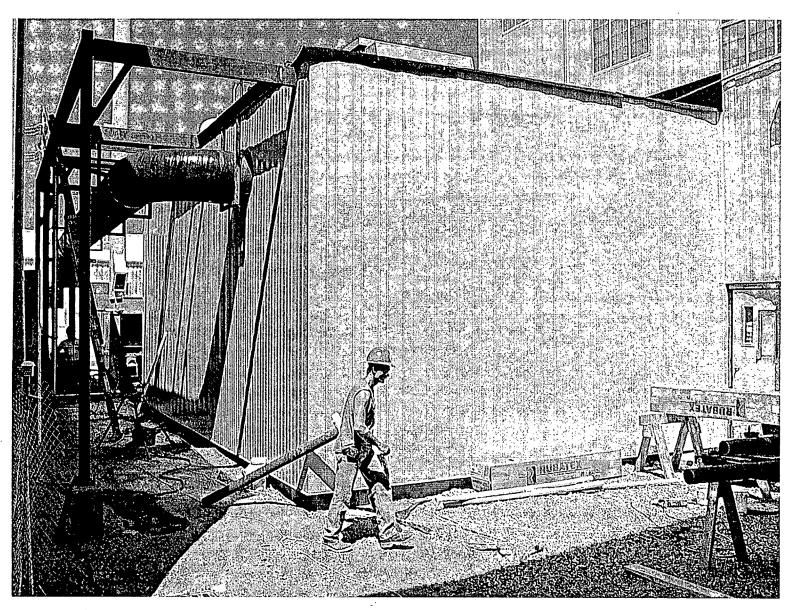


Photo taken May 1999

#### AWWT LABORATORY EXPANSION



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#### EXTRACTION WELL INSTALLATION

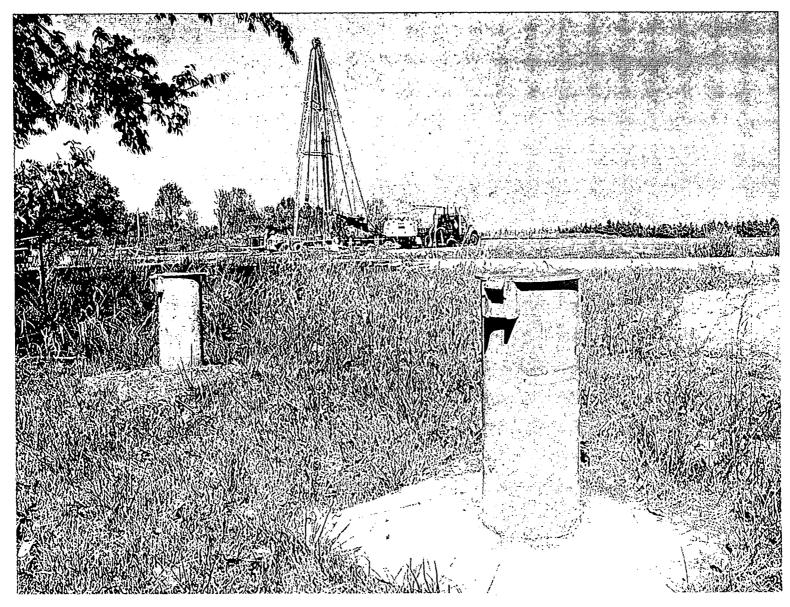
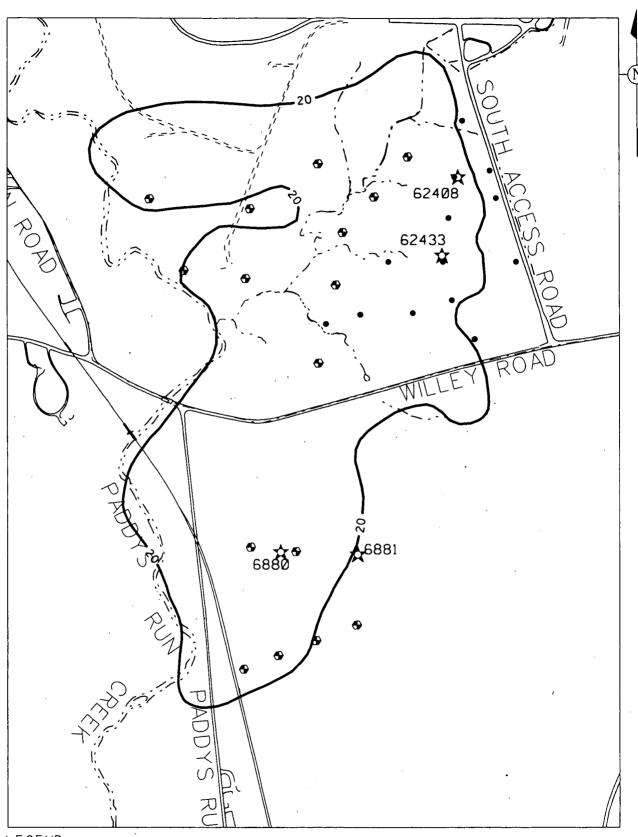


Photo taken August 1999



LEGEND:

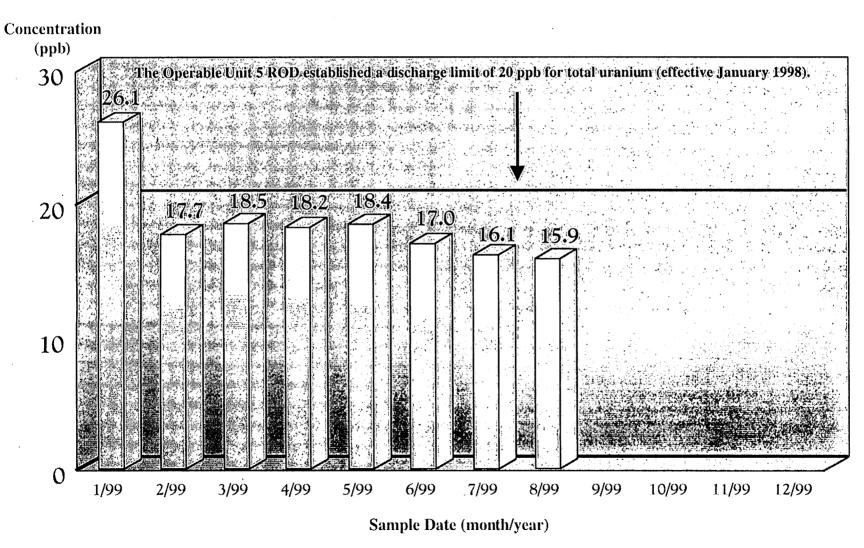
- GEOPROBE LOCATION
- ◆ EXTRACTION WELL LOCATION
- X NEW MONITORING WELL LOCATION

-20 TOTAL URANIUM CONTOUR IN µ.g/L

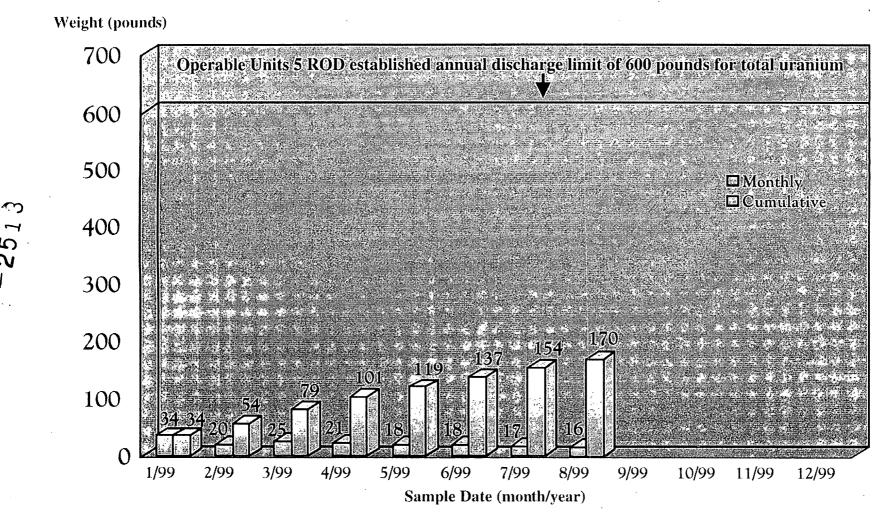
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13-SEP-1999

## AVERAGE MONTHLY TOTAL URANIUM CONCENTRATION DISCHARGED TO THE GREAT MIAMI RIVER IN 1999



#### POUNDS OF URANIUM DISCHARGED TO THE GREAT MIAMI RIVER IN 1999



Note: Sum of monthly discharges may not always agree with cumulative total because of rounding differences.

# PROJECT NEWS SOIL CHARACTERIZATION & EXCAVATION PROJECT

- Excavation activities at old Sewage Treatment Plant and surrounding area
- 3500 cubic yards of soil treated at Trap Range and Firing Range
- Excavation resumed in Southern Waste Units in July
- Area 8 Phase II and Area 6 triangle area (small portion in Morgan Township) certification completed
- Proposed Final Land Use documents available to public

### OLD SEWAGE TREATMENT PLANT EXCAVATION



Photo taken August 1999

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## OLD SEWAGE TREATMENT PLANT EXCAVATION



Photo taken June 1999

#### LEAD STABILIZATION (TRAP RANGE)

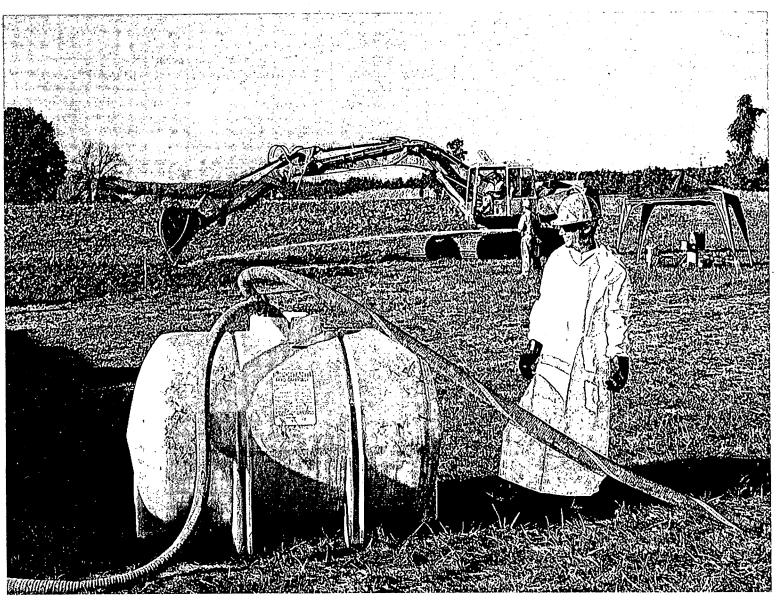


Photo taken August 1999

#### LEAD STABILIZATION (FIRING RANGE)

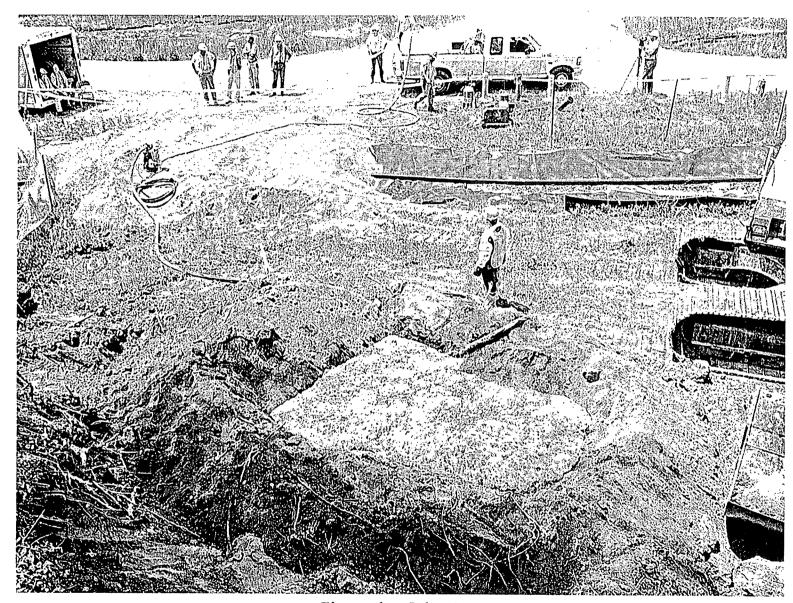


Photo taken July 1999

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#### SOUTHERN WASTE UNITS

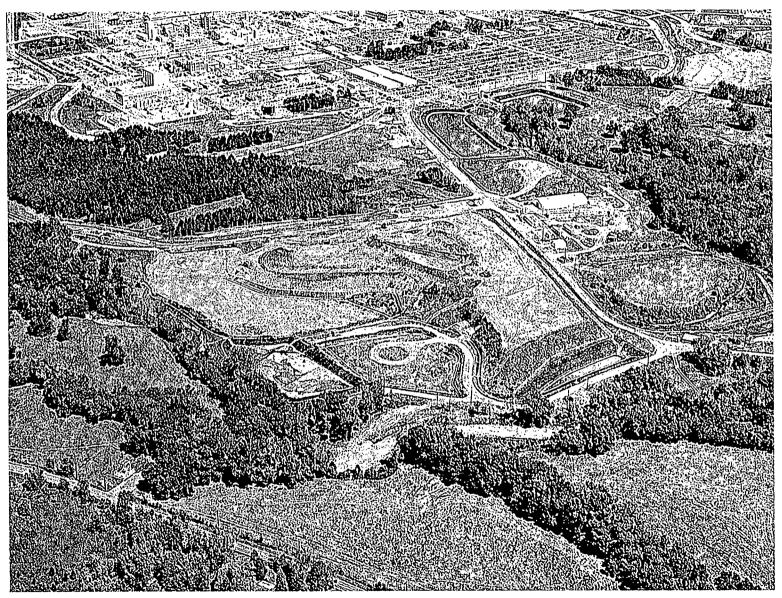


Photo taken September 1999

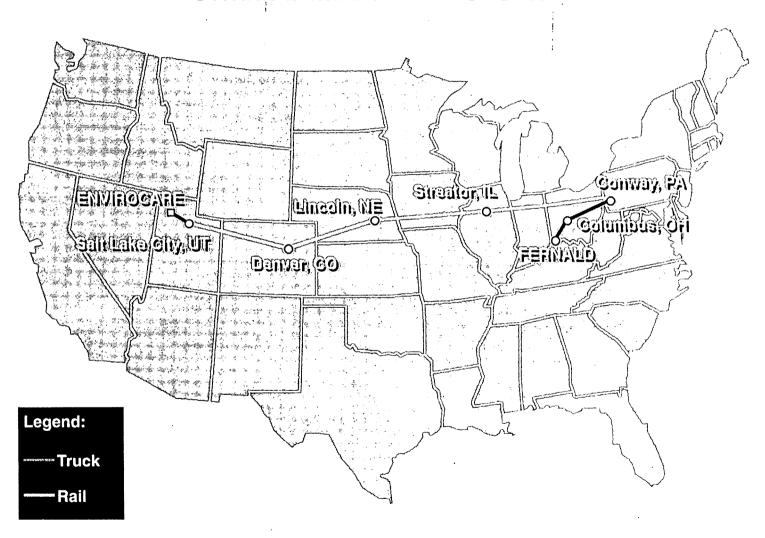
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## PROJECT NEWS WASTE MANAGEMENT

- Liquid mixed waste shipments
- Emergency response field support
- Nuclear material shipments
- Intermodal mixed waste shipment
- Low-level waste shipments

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## INTERMODAL MIXED WASTE SHIPMENT ROUTE



#### INDRINALED CLEDANUP STATUS 1 - Waste Pit Remediation នៅល្ខំped និ8,567 o 5 - Waste and Mater te: shipped 34,084 cu. ft of 3.4 million cu. ft. 2 - Silos 1 and 2: 8,800 cu. yds. low-level radioactive residues to be Material: shipped 2.1 million net lbs. of 9.8 million net lbs. is with many states of 270,000 projected retreived and placed in temporary topik storage Silo 3: 5,088 curyds. of cold metallioxides, to be removed, treated and shipped for disposal di Excovation: moved 750,000 cu. yds. of soil 3 - Aquifer Restoration: 4.8 billion gallons removed from aquifer FORMER PRODUCTION 4 - On Site Disposal Facility (OSDF): Cell #1-560% filled Cell #2 - 25% filled AREA EPA CERTIFIED CLEAN AREAS Cell #3 - secondary liner being installed MAJOR STRUCTURES REMOVED